Amendments to the Claims:

Claims 1 - 19 (Cancelled).

- (Currently Amended) A process for [[the]] producing water-absorbent, foam-type polymer structures comprising the steps of
- foaming an aqueous composition (A) by mechanical action, wherein the aqueous composition (A) comprises
 - (A1) water,
 - (A2) one or more polymers based at least on
- (α1) from about 55 to about 100 wt.% of a polymerized, monoethylenically unsaturated, acid-group-containing monomer or its salt thereof,
- (α2) from 0 to about 45 wt.% of a polymerized, monoethylenically unsaturated monomer that is copolymerizable with (α1).

wherein the sum of the amounts by weight of $(\alpha 1)$ and $(\alpha 2)$ is 100 wt.% and wherein at least about 31.5 wt.% of the monomers, based on the total weight of the monomers $(\alpha 1)$ and $(\alpha 2)$, are acrylic acid or salts of acrylic acid.

- (A3) one or more crosslinkers.
- (A4) one or more blowing agents,
- (A5) one or more surfactants,
- (A6) and optionally further auxiliary substances,

and

ii) heating the foamed aqueous composition of step i) to a temperature in a range of from about 50 to about 300°C, so that the polymer (A2) crosslinks at least partially and the content of water (A1) is adjusted to not more than about 15 wt.%, based on the total weight of the foam-type polymer structure that forms.

- (Previously Presented) The process according to claim 20, wherein the foamed aqueous composition polymer has a number-average molecular weight of at least about 10,000 g/mol.
- (Previously Presented) The process according to claim 20, wherein the foamed composition has a foam liter weight of from about 10 to about 1000 g/l.
- (Previously Presented w) The process according to claim 20, wherein the surface of the absorbent, foam-type polymer structure is smoothed in a further process step.
- (Previously Presented) A water-absorbent, foam-type polymer structure obtainable by a process according to claim 20.
- 25. (New) A process for the production of a composite, wherein the foamed aqueous composition as defined in claim 20 is brought into contact with at least a portion of the surface of a substrate and the substrate brought into contact with the foamed aqueous composition is then heated at a temperature in a range of from about 50 to about 300°C so that the polymer (A2) crosslinks at least partially, the content of water (A1) is adjusted to not more than about 15 wt.%, based on the total weight of the foam-type polymer structure that forms, and the resulting foam-type polymer structure is immobilized on at least a portion of the surface of the substrate.

- 26. (New) The process according to claim 25, wherein the substrate is selected from the group consisting of polymeric film, metal, nonwoven, fluff, tissue, woven fabric, natural fiber, synthetic fiber and foam.
- (New) The process according to claim 25, wherein templates are used during application of the foamed aqueous composition to the substrate.
- 28. (New) A process for the production of a composite, wherein at least a portion of the surface of the water-absorbent, foam-type polymer structure obtained by the process of claim 20 is brought into contact with at least a portion of the surface of a substrate, and the polymer structure is then immobilized on at least a portion of the surface of the substrate.
- (New) The process according to claim 28, wherein the substrate is a thermoplastic sheet-form structure.
 - 30. (New) A composite obtainable by a process according to claim 25.
- (New) A chemical product comprising a water-absorbent, foam-type polymer structure according to claim 24.
 - 32. (New) A composite obtainable by a process according to claim 28.

- 33. (New) The process according to claim 20, wherein the one or more blowing agents is selected from inorganic salts or organic compounds that are capable of decarboxylation.
- 34. (New) A composite comprising a water-absorbent, foam-type polymer structure according to claim 24 and a substrate.
 - 35. (New) A chemical product comprising a composite of claim 34.